

### **ABSTRACT OF THE DISCLOSURE**

A breath responsive filter blower respirator system for a gas mask including a pressure and control device, such as an optoelectric device and/or a pressure sensor, to control the air flow produced by an air blower. The optoelectric device detects the position of the mask's outflow valve. The pressure sensor measures air pressure in the mask relative to ambient air or the absolute air pressure in the mask. During exhalation, the pressure detector detects an increase in air pressure in the mask and/or the optoelectric device detects the outflow valve in an open position, and then signals the central processing unit to signal the air blower to reduce speed. The reduction in speed reduces air flow in the mask and lowers air pressure in the mask.